

Indiana Tech Flash

Indiana's Most Comprehensive Electronic Resource For
Engineering & Technology Education.



Special points of
interest:

- 8 Pages of Resources!
- Upcoming Events & Workshops

November 2009

NEW - Dual Credit Opportunities for Engineering & Technology Education!



Project Excel at Vincennes University has recently expanded the courses that can qualify for Dual Credit.

Some of the courses that can participate in dual credit with Vincennes University include...

- Several PLTW "Engineering" Courses...
- Design Processes
- Communication Systems
- Computers in Design & Production
- Manufacturing Processes

Please contact Robyn Haase

812-888-4086

rhaase@vinu.edu

for details on how your school and students can participate in **Project Excel!**



Features inside this
issue include:

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Animation Software
for FREE 6

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Inventions 7

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Upcoming Dates & Events

ISU Tech T.R.E.K (Terre Haute) - Nov 5, 2009

Renewable Energy Workshop (Kokomo) - Nov 20, 2009

Purdue FIRST VEX Competition 2009 (Lafayette)- Nov 21, 2009

WOW! That's Engineering Workshop - (IUPUI) Dec 5, 2009

Vex Clean Sweep Qualifying Tournament — (Indianapolis) - Dec 5, 2009

Engineering & Technology Rotunda Day (Indiana State House) — Feb 2, 2010

Annual PLTW "ETE" Student Conference (IUPUI) - Feb 2, 2010

World of Wheels Student Career Day (Indianapolis) – Feb 12, 2010

ITEA Conference (Charlotte, NC) — March 18-20, 2010

Engineering Expo - (Purdue) - March 30, 2010

IMSTEA Super Mileage Challenge (O'Reilly Raceway Park) - April 26, 2010

The Game3 project team would like to invite you to participate in an ongoing research exploring student attitudes towards environmental/ecological engineering.

Do you know whether paper or plastic cups are better for the environment? Do you want to learn about green technology, the environmental impacts of products, and how to integrate these topics into your classrooms?

Workshop Objectives:
You will learn about green technologies, measuring the carbon footprint, and Life Cycle Analysis (LCA), a fascinating engineering tool. You will participate in a focus group interview session in which you have the opportunity to discuss what you learned.

Compensation for Participation

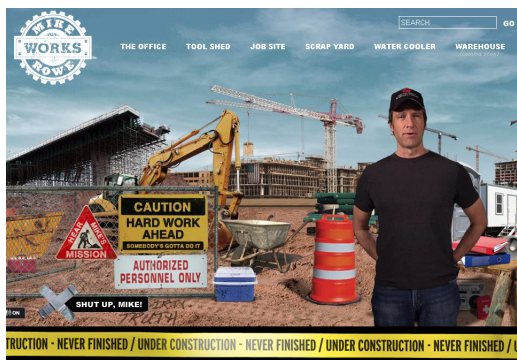
When you complete two workshops and one focus group interview session, **you can earn up to \$200.00.** (\$100.00 for your participation and \$100.00 to cover the cost of a substitute),

Would you like to learn more? Please contact: Constance Harris at harris11@purdue.edu for additional details.

Mike Rowe Works Web Site

"Teaching is the profession that teaches all other

professions." That was quipped by some unknown author back in the day. Well, hats off to that author whoever you were. The positive impact of educators should never



be underestimated. Right along side our family, teachers set us down the road of our own life journey. They give us the tools to think, to process and to solve. We owe

them way more than a shiny red apple. We owe those teachers who made a difference in our lives our thanks and achievement. Fortunately, those two ideas go hand in hand.

<http://www.mikeroweworks.com>



New Mazda3 Hatchback: aerodynamics animation

Clever Mazda design has ensured the 2009 Mazda3

is aerodynamic even at speed. This video shows an animation of this approach to aerodynamics at work on the all new Mazda3 European Hatchback

Want to create a STEM curriculum?

[Click here for one teacher's solution.](#)



Igniting and Sustaining STEM Education

As the workplace changes and becomes increasingly global, today's students must be educated with a 21st-century mindset. Science,

technology, engineering, and math (STEM) skills are no longer just "good skills" to have; they are increasingly vital to a 21st-century education—and students should begin cultivating these skills as early as possible. Attracting students to the STEM disciplines is the first hurdle, and retaining student interest in these areas is the second. But once student interest in STEM-related fields is established, they will discover they are on a

successful path not just for higher education, but for the workforce as well.

<http://www.eschoolnews.com/resources/stem-education/>



Indiana FIRST Robotics Grant Application

The Indiana Workforce Development announces support for Indiana FIRST Robotics teams.

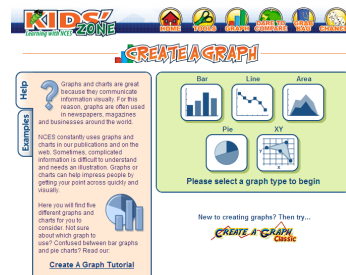
FIRST teams interested in this support will need to complete the following application.

Robotics teams help inspire Career and Technology Education students to be science

and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering and technology skills.

These grants are being funded by the Carl D. Perkins Career & Technical Education Act.

<http://www.in.gov/dwd/>



Create a Graph

Here you will find five different graphs and charts for you to consider. Not sure about which graph to use? Confused between bar graphs and pie charts?

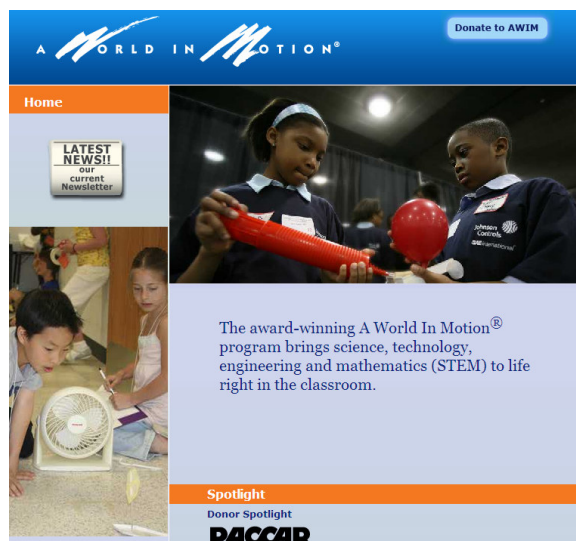
Also Read our [Create A Graph Tutorial](http://nces.ed.gov/nceskids/createAgraph/default.aspx)

<http://nces.ed.gov/nceskids/createAgraph/default.aspx>

A World In Motion®

(AWIM) program. The award-winning A World In Motion® program brings science, technology, engineering and mathematics (STEM) to life right in the classroom.

<http://www.awim.org/>



OpenOffice.org 3

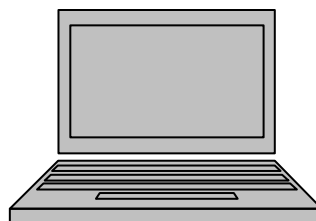
is the leading open-source office software suite for word processing, spreadsheets,

It stores all your data in an international open standard format and can also read and write files

presentations, graphics, databases and more. It is available in many languages and works on all common computers.

from other common office software packages. It can be downloaded and used completely free of charge.

<http://why.openoffice.org/>





VU is committed to broadening the dual credit options available to Indiana students and providing them with opportunities to receive hands-on college experience in career and technical areas. With this in mind, we are pleased to announce that beginning in the Fall of 2009, ***Project EXCEL will waive the tuition fee*** for students enrolled in dual credit courses in select career and technical areas.

http://www.vinu.edu/cms/opencms/academic_resources/project_excel/



Welcome to Technical Education Magazine!

Technical Education Magazine (ONLINE and IN PRINT), encourages, enlightens and inspires educators in the Technical, Technology, Industrial, Vocational, and

Pre-Engineering Fields. Leaders of Industry ensure continued relevance to our audience needs. Over 160,00 Professionals in 14,750 School Districts are influenced by our service. Total coverage of the Technical

Programs is in Junior College, Vocational Schools, High Schools and Middle Schools.

<http://www.techedmagazine.com/home>



Defined STEM Offers FREE Trial of Education Media for Indiana Schools

We have developed a unique approach to integrating STEM

education into the classroom. The foundation of Defined STEM is our career based videos that interview various professionals (from NASA Engineers to Architects) depicting how

they use science, technology, engineering and math in their day to day vocation.

<http://stem.definedlearning.com>

Enter the *Promo Code: INSTEM*

For more info contact Brannan Kenny at (847) 481-8073

eGFI – (Engineering: Go For It)

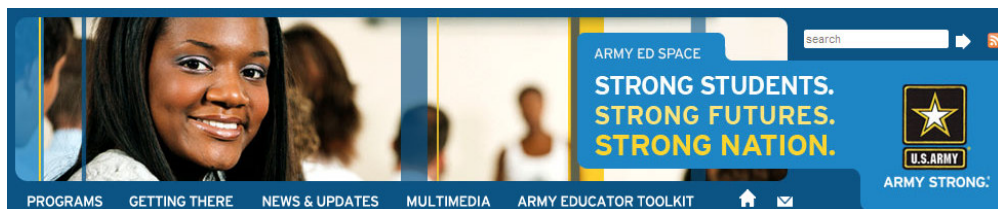


A new magazine and website with resources for k-12 students and teachers to support engineering education. The newly expanded eGFI – (Engineering: Go For It) a multi-media exploration of engineering for middle and high-school students, has just been published.

The package combines a website and a magazine, available in print and online, that opens up the

world of engineering with profiles and features on an array of engineering disciplines, opportunities for discovery, and careers. According to ASEE, educators recognize that engineering, which stresses hands-on teamwork and imaginative problem solving, stimulates and enriches math and science learning.

<http://egfi-k12.org/>



The Army Educational Outreach Program

consists of multiple programs to engage students and teachers in Army sponsored research, education, competitions, internships and unique practical

experiences to stimulate the science, technology, engineering and mathematics fields.

<http://www.armyedspace.com/>



PTC Pro/Engineer Academy

Gain nearly 1 million worth of **FREE CAD Software today!**

Welcome to the PTC/ Academy learning portal. Here you will find self directed and self paced tutorials to get you started using your **FREE** Pro/ENGINEER Wildfire!

<http://www.ptcacademy.com/>



DonorsChoose.org

is a simple way to provide students in need with resources that our public schools often lack. At this not-for-profit web site,

teachers submit project proposals for materials or experiences their students need to learn. These ideas become classroom reality when concerned individuals,

whom we call Citizen Philanthropists, choose projects to fund.

<http://www.donorschoose.org/>



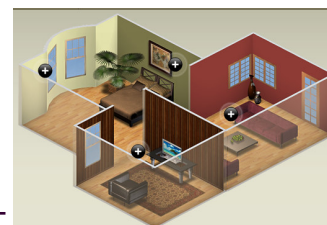
The F1 Challenge

is open to middle and high school level students worldwide. F1 team members learn and work in CAD, CAM, and CNC programs as they perform various activities at each phase of a five-step process to design, analyze, make, test and race a 1/20th scale F1 car. USA teams may face

an elimination event at the state level, in order to qualify for participation in the national challenge, which takes place each year at TSA's national conference. Participation in the USA F1 Challenge involves an annual team fee of \$150. This fee covers team registration and all items in the F1 Challenge Kit (F1 rules book, two car kits, free software options, etc.). If you have students who would like to work

together as a F1 team, complete the F1 Challenge Agreement Form and fax or mail it along with the payment to TSA. For more details contact Hillary Lee at 703/860.9000, ext. 16 or at hlee@tsaweb.org

www.f1inschools.com



Autodesk Project Dragonfly

allows you to streamline your next home improvement project by using Dragonfly's intuitive design tools to rapidly create and furnish your floor plan, experimenting in real time with your ideas in 2D and 3D before making it real.

<http://dragonfly.autodesk.com>



Blender 3-D design and animation software

Blender is the free open source 3D content creation suite, available for all major operating systems

<http://www.blender.org/>

The Front Lines: Students Confronting the Dropout Crisis

Meet some of Indiana's students who struggled with the dropout issue in their own lives. Students who can speak from their own personal experiences can sometimes be the best teachers. Learn what it was like for them in their schools and in their homes and what led them, not only to drop out, but to go back to school or earn their GED.

Indiana Department of Education
SUPPORTING STUDENT SUCCESS

Home > Video Program Guide > The Front Lines: Students Confronting the Dropout Crisis

The Front Lines: Students Confronting the Dropout Crisis

Download This Video

Duration: 9 min. 31 sec.

Description:

Meet some of Indiana's students who struggled with the dropout issue in their own lives. Students who can speak from their own personal experiences can sometimes be the best teachers. Learn what it was like for them in their schools and in their homes and what led them, not only to drop out, but to go back to school or earn their GED.

Resources:

- Dropout Prevention Web site

Contact:

Greg Cochran
Education Specialist, Special Education
Indiana Department of Education
gcochran@doe.in.gov

Matt Fleck
Indiana Department of Education

<http://media.doe.in.gov/curriculum/2009-09-29-DropoutSummit.html>

The Sitting Machine

What happens when 10-year-olds are given the chance to unleash their creativity in the classroom!

<http://www.thesittingmachinemovie.com/>



Go!

is a free, online magazine for teens and young adults that explores the world of transportation and the careers they can find there. *Go!* is an online magazine for teens

and young adults ages 14–20. The magazine covers transportation from all angles, from the infrastructure to the vehicles to the people behind the wheel—whether that “wheel” is on a car, truck, train, plane,

or ship.

<http://www.go-explore-trans.org/>





10 NASA Inventions You Might Use Every Day

Teenagers everywhere can thank NASA for inventing the material that makes those invisible braces invisible. We can also thank the space administration for athletic shoes, scratch-resistant lenses and cordless vacuums.

<http://science.howstuffworks.com/ten-nasa-inventions2.htm>

9 Things Invented or Discovered by Accident

From potato chips to corn flakes, many of the things we consume today were an accident. The inventors are often held in high regard, but their inventions were a strange twist of fate. See our list of nine things invented or discovered by accident.

<http://science.howstuffworks.com/9-things-invented-or-discovered-by-accident7.htm>



Architect Studio 3D

Design a House with Frank Lloyd Wright



Design Studio

On this Web site, you can design a house, walk through it in 3D, and then share it with the world. You can also learn more about architecture, past and present, and explore Frank Lloyd Wright's life and work.

<http://www.architectstudio3d.org/AS3d/home.html>

NREL National Renewable Energy Laboratory
Innovation for Our Energy Future

[ABOUT NREL](#) | [SCIENCE & TECHNOLOGY](#) | [TECHNOLOGY TRANSFER](#) | [APPLYING TECHNOLOGIES](#) | [LEARNING ABOUT RENEWABLES](#)

Education Programs

[About Education Programs >](#)
[K-12 Students >](#)
[Undergraduate & Graduate Students >](#)
[Postdoctoral Researchers & Research Associates >](#)
[Sabbaticals & Faculty Appointments >](#)
[Teachers >](#)

K-12 Programs

Engage your mind with renewable energy education! Connecting education to research, education programs inspire students to explore sustainable energy solutions to meet our future needs.

K-12 Programs
Coalition for Learning

Internship & Graduate Programs
Science Undergraduate

Teacher Programs
DOE Academics Creation

Education Programs serves the education and research missions of NREL and the Department of Energy in several major areas including student competitions and programs, undergraduate research internships, teacher research internships, and teacher professional development workshops.

<http://www.nrel.gov/education/>

National Renewable Energy Laboratory

The National Renewable Energy Laboratory (NREL)'s Office of

Discovery Education's **PUZZLEMAKER**

[Puzzlemaker from discovery education.com](http://puzzlemaker.discoveryeducation.com)

To create your criss-cross, follow the steps below and click the "Create My Criss-Cross" button when you are done. Puzzlemaker uses PNG image files which are only viewable in Netscape and Internet Explorer browsers version 4.0 or higher.

[http://
puzzlemaker.discoverye
ducation.com/
CrissCrossSetupForm.
asp](http://puzzlemaker.discoveryeducation.com/CrissCrossSetupForm.asp)



[FREE Energy Lesson Plans](#)

Download FREE Hands-on, Multidisciplinary Educator Lesson Plans

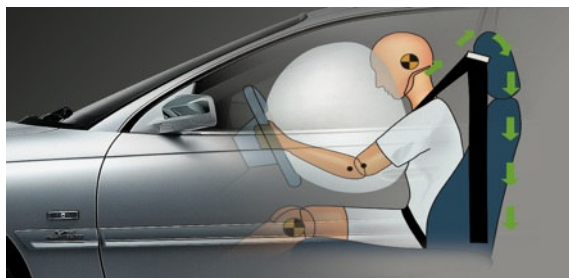
multidisciplinary lesson plans in the hot area of energy.

We have obtained rights for the lesson plans here for your classroom use. A

Teachers around the nation told us that they would like free, hands-on,

number of them are used in the [Alliance to Save Energy's Green Schools Program](#)—a unique, collaborative effort by teachers, administrators, and facilities and maintenance staff which reduces school energy costs at the same time it educates students. Each of these plans can be downloaded as a PDF file and printed out.

[http://ase.org/section/
_audience/educators/
lessons/](http://ase.org/section/_audience/educators/lessons/)



[GM Education Website](#)

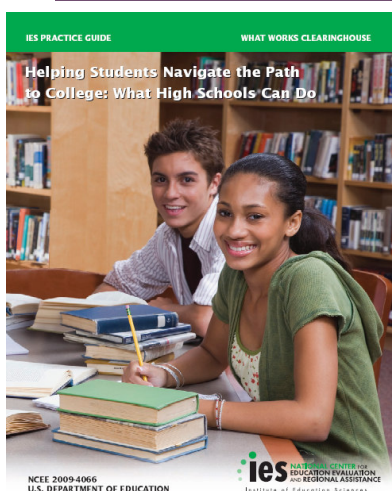
The new and improved General Motors Education website serves as an additional education

resource for parents, students, and teachers. It gives kids an opportunity to see how technology plays a role in their everyday lives. Some

highlights of the new education site include:

Build your own ZR1 in Mr. Stephens' Engine Shop, Recycler's Challenge: An interactive quiz on the way things were "back in the day," titled Retro Techno, and MORE!

[http://www.gm.com/
experience/education/
index.jsp](http://www.gm.com/experience/education/index.jsp)



[HELPING STUDENTS NAVIGATE THE PATH TO COLLEGE](#)

Access to higher education remains a challenge for many students who face academic and informational barriers to college entry.

A new guide from the Institute of Education Sciences targets high schools and school districts, and focuses on

effective practices that prepare students for college, assist them in completing the steps to entry, and improve their likelihood of enrolling in college.

[http://ies.ed.gov/ncee/
wwc/pdf/practiceguides/
higher_ed
_pg_091509.pdf](http://ies.ed.gov/ncee/wwc/pdf/practiceguides/higher_ed_pg_091509.pdf)



Indiana Department of Education
SUPPORTING STUDENT SUCCESS
Dr. Tony Bennett, Superintendent of Public Instruction
Statehouse, Room 228
Indianapolis, IN 46204

NEWS

www.doe.in.gov/news

MEDIA ADVISORY
For Immediate Release
Tuesday, Oct. 27, 2009

Media Contact: Lauren Auld
(317) 232-6617
lauld@doe.in.gov

“Year of Science” begins with focus on Science, Technology, Engineering and Math

Superintendent of Public Instruction Dr. Tony Bennett offered a call-to-action message at the Second Annual Indiana Building Awareness for Science Education Symposium in South Bend today. The symposium is provided through a partnership between the Indiana Department of Education (IDOE) and the Indiana Science, Technology, Engineering and Mathematics (I-STEM) Resource Network. With life and health sciences now the largest growing industry cluster in the state, offering some of the highest demand and highest paying jobs in Indiana, the symposium highlighted the importance of K-12 education in STEM fields.

“This symposium is only the beginning of a year-long effort to reform science education in Indiana to benefit our students and economy,” said Bennett. “Ultimately, our young adults are the future of great science-centered companies, such as Eli Lilly and Company, Dow AgroSciences, the Cook Group, and Zimmer, Inc. If we as Indiana educators are unable to provide them with a rigorous STEM curriculum, then these companies are going to look elsewhere for employees.”

The symposium served as the kick-off to “The Year of Science.” On February 3, 2010, IDOE and I-STEM will partner with Eli Lilly and Company to host the first Indiana Science Summit. The summit will bring together stakeholders from around the state to listen and discuss alternatives for improving science education. This past year, only 62 percent of Indiana fourth and sixth graders were able to pass and meet the state expectations on the science portion of I-STEP+ assessment.

“Test scores for I-STEP+ and NAEP tell us that there is much work to be done to improve student learning and achievement in all subjects, including science. Already, we are taking a look at the academic standards for this subject. Beginning in 2010, we’ll start evaluating the curriculum and resources teachers are using in the classroom,” said Bennett. “Indiana’s efforts to increase content knowledge requirements for future teachers also will play an important role in science education reform.”

Indiana will adopt new science curricular materials in 2011, with the process beginning in 2010. These materials will be a primary resource for each classroom in Indiana for the next six years. It is critical that all stakeholders, including teachers, school administrators and community members, be involved to make sure these materials build a deep understanding about science, are research tested, and have proven results in student achievement.

Prior to today’s meeting, a strategic plan was developed in partnership with the National Science Resources Center (NSRC) for science education reform in Indiana. Implementation of this plan requires significant commitment from the community, thus today’s symposium was a critical first step in educating attendees on K-12 Science.

The symposium addressed four critical themes that community leaders, including scientists and engineers, play in preparing our young learners for education, employment and citizenship in a high-tech world. Sessions engaged attendees in discussion that pulled from their expertise and provided directions for future involvement in science education. The four themes included:

- Understanding the breadth and depth of the problem.
- Examining the research supporting effective K–I6 science learning and teaching.
- Investigating the characteristics of effective K–I6 science education programs.
- Learning from leaders who are working to improve K–I6 science education programs in Indiana and throughout the nation.

“The Indiana Building Awareness for Science Symposium brings together leaders and educators in the fields of science, technology, engineering and mathematics to participate in activities and discussions that will continue to strengthen science education in Indiana. Understandings about science that develop during K-12 education are highly important for Indiana students and the future of our workforce,” said Bill Walker, executive director of the I-STEM Resource Network. “This event will help us learn what steps we can take to make STEM education stronger in Indiana, but accomplishing our goals will require the involvement and commitment of a significant cross section of stakeholders.”

For more information the Second Annual Indiana Building Awareness for Science Education Symposium, go to: <http://www.istemnetwork.org/buildingawareness.cfm>.

Registration for the 2010 Indiana Science Summit will be available at www.doe.in.gov beginning Nov. 9, 2009. Additional information on summit specifics will be released before the first of the year.

October 27, 2009

Dear High School STEM Teacher,

Electrical energy is important to all of us. How we generate, distribute, and utilize electrical energy in the United States will face significant challenges and changes in the very near future. We believe high school students need to know about these challenges related to energy and specifically electrical energy. Further, we believe the best way to get the message out is through high school STEM teachers.

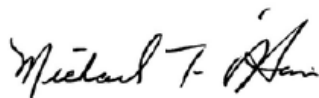
On November 20, 2009, a one day workshop entitled **“Future of Conventional and Renewable Electrical Energy: What Should Students Know?”** will be held in Kokomo and *you are invited*. This workshop is being sponsored by Delphi Electronics and Safety, Duke Energy, and the Purdue University College of Technology at Kokomo.

We only have email addresses for Industrial Technology teachers in our service region. When you receive this email, please share this letter with all science and math teachers at your high school. Also, we will copy all high school principals and asked them to encourage all STEM teachers to attend this workshop.

This workshop is being partially supported by a U.S. Department of Labor grant. There is no registration fee, but you must be registered to attend. The registration is limited to the first 25 applicants. Please review the attached program, and if you are interested in attending, please complete the registration form and return either by U.S. mail or FAX to (765) 455-9397 with attention to Cindy Rush. If you have questions, please e-mail Cindy Rush at [<clrush@purdue.edu>](mailto:clrush@purdue.edu).

An educational fuel-cell model car valued at \$150 will be given away at the end of the workshop to a lucky attendee and their school. See picture on the bottom of the Registration Form. You must be present to win.

Sincerely,



Michael T. O'Hair, Ed.D.
Professor, Electrical and Computer Engineering Technology

Xc: Christy Bozic, Director
Laura Sheets, Duke Energy
Paul Ainslie, Delphi Electronics and Safety
High School Principals

WOW!

THAT'S ENGINEERING!

Calling all 6th, 7th, and 8th grade girls!!!

Are you ready to experience the creativity and innovation of engineering and technology?

Who: Society of Women Engineers Central Indiana

What: **WOW! That's Engineering!**

Where: IUPUI Campus

Cost: **\$7**, includes continental breakfast & hot lunch

Register Online at <http://wowengineering.eventbrite.com>

~ Student Track ~

When: **Saturday, December 5, 2009, 9 AM to 2:30 PM**

SWE will teach six hands-on engineering activities including "Make Your Own Lip Gloss" & "The Coin Battery"

~ Parent Track ~

When: **Saturday, December 5, 2009, 12:30 PM to 2 PM**

SWE will provide parents with information and resources on how to keep their students involved in Science, Technology, Engineering, and Mathematics (STEM) throughout school and how to prepare students for college.

IUPUI
Why not both?

~ SPONSORS ~



Society of
Women Engineers

ASPIRE • ADVANCE • ACHIEVE



How can guitars be used to teach math, science and technology concepts?

Attend this **FREE** Purdue class to find out and **make your own solid body electric guitar!**

Funding for the class is provided by WIRED



- Use CAD and CAM tools to add your own custom features
- Work with Purdue faculty members and other teachers as you learn about guitars and guitar making
- Teaching materials will be supplied
- Lunch will be provided
- Continuing education credits may be available.

Time and seating is limited. Saturday classes start late October....Sign up now!

View this video of a classroom using these concepts at

<mms://video.dis.purdue.edu/bns/technology/guitar090220.wmv>

Contact Mark French (765-494-7521) or Vicki Brewer (765.494.9099) for more information.



"This workforce solution was funded by a grant awarded under Workforce Innovation in Regional Economic Development (WIRED) as implemented by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner."



MEMBERSHIP APPLICATION

JOIN ITEA

AND RECEIVE THESE
MEMBER BENEFITS:
The Technology Teacher
(all memberships)
Technology and Children
(group memberships)
Grants & Scholarships
Professional Development
Publications Discounts
Recognition & Awards
Government Relations
Insurance Programs
Networking Opportunities
Online Resources

Our members are classroom teachers from elementary to high school, local and state/provincial supervisors, college/university faculty, and museum staff. Their common ground is an interest and involvement in technology education. Founded in 1939, ITEA brings together technology education professionals to share ideas, gain professional development, and improve public understanding of technological literacy.

☐ New ☐ Renew Member ID# _____

Check preferred mailing address: ☐ Home ☐ School/Business

Name _____
Home Address _____
City _____ State/Province _____ Zip + 4/Postal Code _____
Phone _____ Fax _____ Email _____

School or Business _____
Address _____
City _____ State/Province _____ Zip + 4/Postal Code _____
Phone _____ Fax _____ Email _____

Individual Membership

Professional (U.S.A.)	<input type="checkbox"/> 2 Year \$155	<input type="checkbox"/> 1 Year \$80
Canada & Mexico	<input type="checkbox"/> 2 Year \$165	<input type="checkbox"/> 1 Year \$85
Other Foreign	<input type="checkbox"/> 2 Year \$175	<input type="checkbox"/> 1 Year \$90
Undergraduate Student – first-time member	<input type="checkbox"/> 1 Year \$35	
Full-time Grad./Renewing Undergraduate Student	<input type="checkbox"/> 1 Year \$40	
Bridge – one-time Student to Professional	<input type="checkbox"/> 1 Year \$65	
Advocate (includes TIDE, Retired, and Sustaining Technical Rep.)	<input type="checkbox"/> 1 Year \$40	

Group Membership

Elementary School	<input type="checkbox"/> 2 Year \$310	<input type="checkbox"/> 1 Year \$160
Institutional (University)	<input type="checkbox"/> 2 Year \$470	<input type="checkbox"/> 1 Year \$240
Museum	<input type="checkbox"/> 2 Year \$470	<input type="checkbox"/> 1 Year \$240
Corporate	<input type="checkbox"/> 2 Year \$790	<input type="checkbox"/> 1 Year \$400

Payment

Must be in U.S. Currency and drawn on a U.S. bank.

☐ P.O. # _____ (Attach Original)
☐ Check enclosed (made payable to ITEA)
☐ Please charge \$ _____ to:
☐ VISA ☐ MasterCard ☐ Discover

Card Number _____
Exp. Date _____ Signature _____

Optional Councils (ITEA Membership Required)

Two-year ITEA dues? Don't forget to double your council dues, too!

☐ CTTE – Teacher Educator \$40
☐ CS – Supervisors \$20
☐ TECC – Elementary \$25 (Includes *Technology and Children*)

Optional Subscriptions

☐ *The Technology Teacher* (electronic version - pdf) \$65/year
☐ *Technology and Children* (4x a year)
U.S.: \$45, Members \$35 Foreign: \$55, Members \$45
☐ *Technology and Children* (electronic version - pdf) \$30/year
☐ *Journal of Technology Education* \$15/year; \$20 outside U.S.

General Position

☐ Elementary Teacher
☐ Middle/Junior High Teacher
☐ High School Teacher
☐ Supervisor/Administrator
☐ Junior/Community College Professor
☐ University Professor
☐ Undergraduate College Student
☐ Graduate Student
☐ Retired
☐ Non Teaching/Consulting/Sales
☐ TIDE (Technology/Design/Engineering)

☐ Male
☐ Female

Age Range

☐ 18-25
☐ 26-35
☐ 36-45
☐ 46-55
☐ Over 55

Phone: 703-860-5032
Fax: 703-860-0353
Email: members@iteaconnect.org
Mail: 1914 Association Drive
Suite 201
Reston, VA 20191-1539

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INDIANA SUPER MILEAGE CHALLENGE

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Inquiries regarding compliance by the Indiana Department of Education with Title IX and other civil rights laws may be directed to the Human Resources Director, Indiana Department of Education, Room 229, State House, Indianapolis, IN 46204-2798, or by telephone to 317-232-6610, or the Director of the Office for Civil Rights, U.S. Department of Education, 111 North Canal Street, Suite 1053, Chicago, IL 60606-7204



THE VISION

The academic achievement and career preparation of all Indiana students will be the best in the United States and on par with the most competitive countries in the world.

THE PLAN

1. Create and promote a statewide culture of academic excellence, in which at least:
 - a) 90% of students pass both Math and English/Language Arts sections of ISTEP+ and End-of-Course Assessments;
 - b) 25% of all graduates receive a score of 3, 4 or 5 on at least one Advanced Placement exam, a 4 or higher on an International Baccalaureate exam, or receive the equivalent of 3 semester hours of college credit during their high school years; and
 - c) 90% of students graduate from high school.
- Institute and sustain an emphasis on reading at the elementary level and integrate reading and writing into all content areas to ensure students are able to comprehend and to apply new knowledge across the curriculum and in practical settings.
- Advance learning in the Science, Technology, Engineering and Mathematics (STEM) areas.
- Drive college preparedness by designing and implementing a coherent Advanced Placement (AP) course strategy, including a focus on AP readiness at the middle school level and an aggressive dual-credit strategy.
- Focus on middle school success by ensuring an engaging learning environment that demands academic rigor, begins career preparation awareness and builds upon elementary achievement in basic skills.
- Integrate Title I, English Language Learners (ELL), High Ability and Special Education programs seamlessly into the learning environment by focusing on meeting the needs of the child and complementing the learning experience.
- Create multiple pathways for learning that enable all students to attain postsecondary success.
- Create a vibrant statewide Career and Technical Education program through the creation of state of the art Programs of Study that integrate rigorous academic standards, prepare students

See the NEW IDOE Vision and Plan at:
<http://www.doe.in.gov/actionplan/index.html>